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Fig. 1
(PRIOR ART)

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FIG. 1
(PRIOR ART)

FIG. 3
(PRIOR ART)
LOCAL SWITCH MEMORY MAP

SUBSCRIBER FILES N (9999)	FREQUENCY FILES N (1000)	LATA BUFFERS	LOCAL BUFFERS
① FILE # 1 (0000)	1 FILE 1 (1000)	INBOUND LATA BUFFER	INBOUND PAGES
② TELEPHONE #	2 0-15 FRE- QUENCIES USED IN REGION COR- RESPONDING TO FILE #		0
③ SUBSCRIBER AND PAGER ID CODE			1
④ SERVICE OPTIONS			2
ⓐ NO SERVICE		180	3
ⓑ LOCAL			4
ⓒ REGIONAL			
ⓓ NATIONAL			
ⓔ ABOVE WITH REPEAT PAGING		OUTBOUND LATA BUFFER	5
ⓕ DATA SERVICE			6
ⓖ EXTERNAL DATA			
⑤ SUBSCRIBER NAME/ACCOUNT			7
⑥ ACCOUNT #		182	
⑦ PAGE COUNT (L,R,N)			8
⑧ # OF DATA CHARACTERS SENT	FILE # N (999)		9
⑨ DESTINATIONS AREA CODE(S)			
FILE # N (9999)			

154 156 158 160 184 162 164 166 168 170 172 174 176 178 186

ID CODE BUFFERS

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FIG. 4
(PRIOR ART)

LATA   SWITCH   MEMORY   MAP

188 →	HUB BUFFERS	LOCAL BUFFERS	LATA ID MEMORY	OPTIONAL	OPTIONAL
	OUTBOUND PAGES	INBOUND PAGES 202	ALL PAGER ID CODES OF LOCAL #1	ALL CALL BUFFER PAGES FROM HUB SWITCH	ALL CALL BUFFER PAGES FROM LOCAL SWITCHES
198 →		OUTBOUND PAGES LOCAL # 1			
200 →	INBOUND PAGES	204			
			ALL PAGER ID CODES OF LOCAL # N (26)		
		OUTBOUND LOCAL # N (25)			

190   192   194   196

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FIG. 5
(PRIOR ART)
HUB SWITCH MEMORY MAP
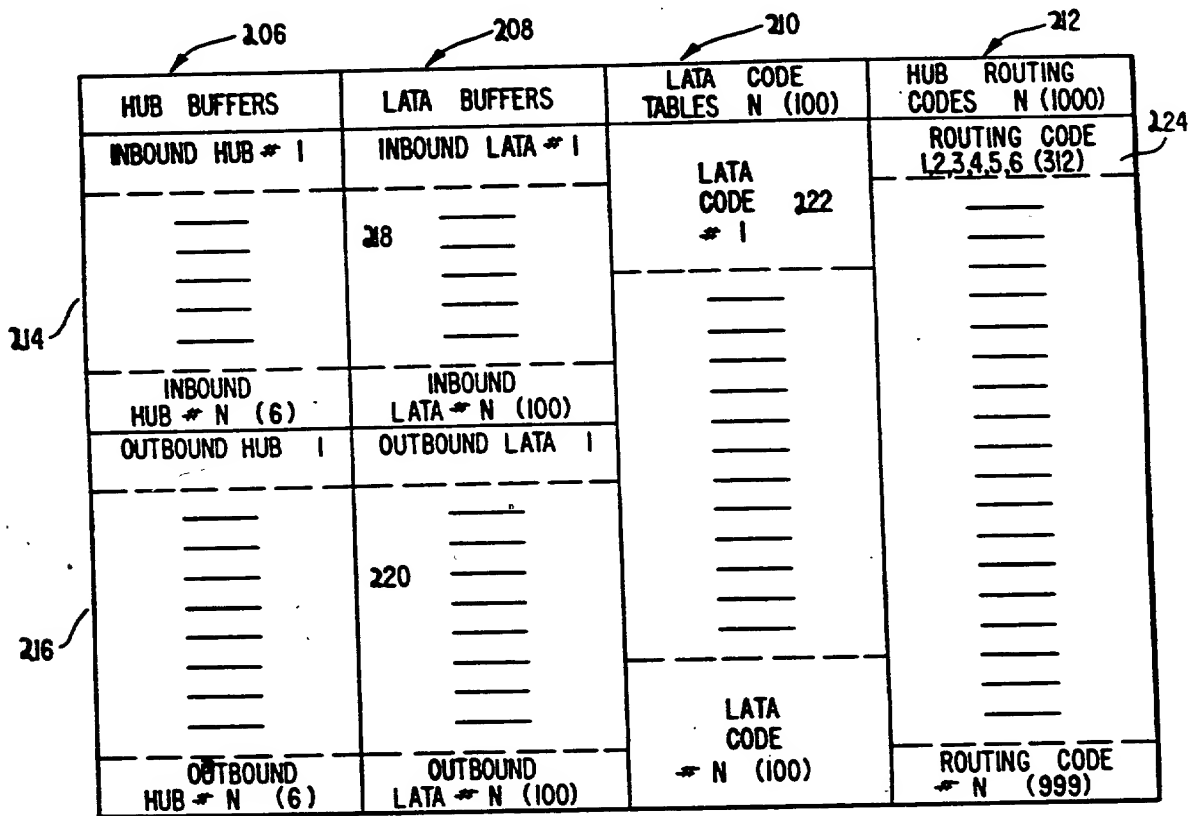
HUB BUFFERS 206	LATA BUFFERS 208	LATA CODE TABLES N (100) 210	HUB ROUTING CODES N (1000) 212
INBOUND HUB # 1	INBOUND LATA # 1	LATA CODE # 1 222	ROUTING CODE 1,2,3,4,5,6 (312) 124
214	218		
INBOUND HUB # N (6)	INBOUND LATA # N (100)		
OUTBOUND HUB 1	OUTBOUND LATA 1		
216	220		
OUTBOUND HUB # N (6)	OUTBOUND LATA # N (100)	LATA CODE # N (100)	ROUTING CODE # N (999)

FIG. 6
(PRIOR ART)

THE FIVE LAYER MODIFIED X.25 PACKET

DESTINATION TELEPHONE NUMBER ①	PACKET SIZE ②	ORIGINATION SWITCH ADDRESS ③	DESTINATION SWITCH ADDRESS	NUMBER OF PAGES IN PACKET ④	PAGE 1 ⑤	PAGE 2	PAGE 3	PAGE 4	PAGE N
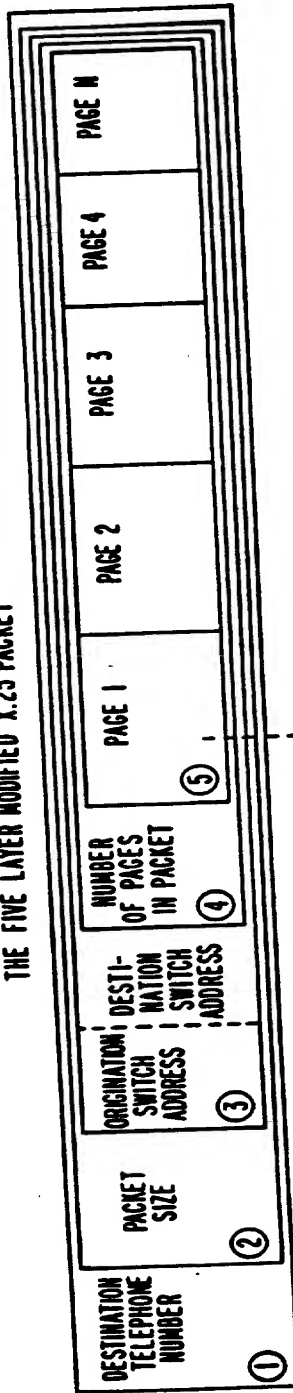
MESSAGE DETAIL

DESTINATION(S)	SPECIAL COMMANDS	PAGE	END OF FILE FILE SIZE

— COUNTRY-CITY CODES
— AREA CODES.
— 8 DIGIT ID CODE
— BEGINNING OF FILE

Fig. 7

(PRIOR ART)

FIG. 8

Fig. 9

Fig. 10

302

FROM LATA SWITCH 114

112
LOCAL SWITCH

118
LOCAL SERVICE

116
RF RECEIVER

116
RF RECEIVER

RF RECEIVER

DESTINATION AND ORIGINATING PROCESSOR E MAIL SYSTEM #1

DESTINATION AND ORIGINATING PROCESSOR E MAIL SYSTEM #2

DESTINATION AND ORIGINATING PROCESSOR E MAIL SISTEM #N
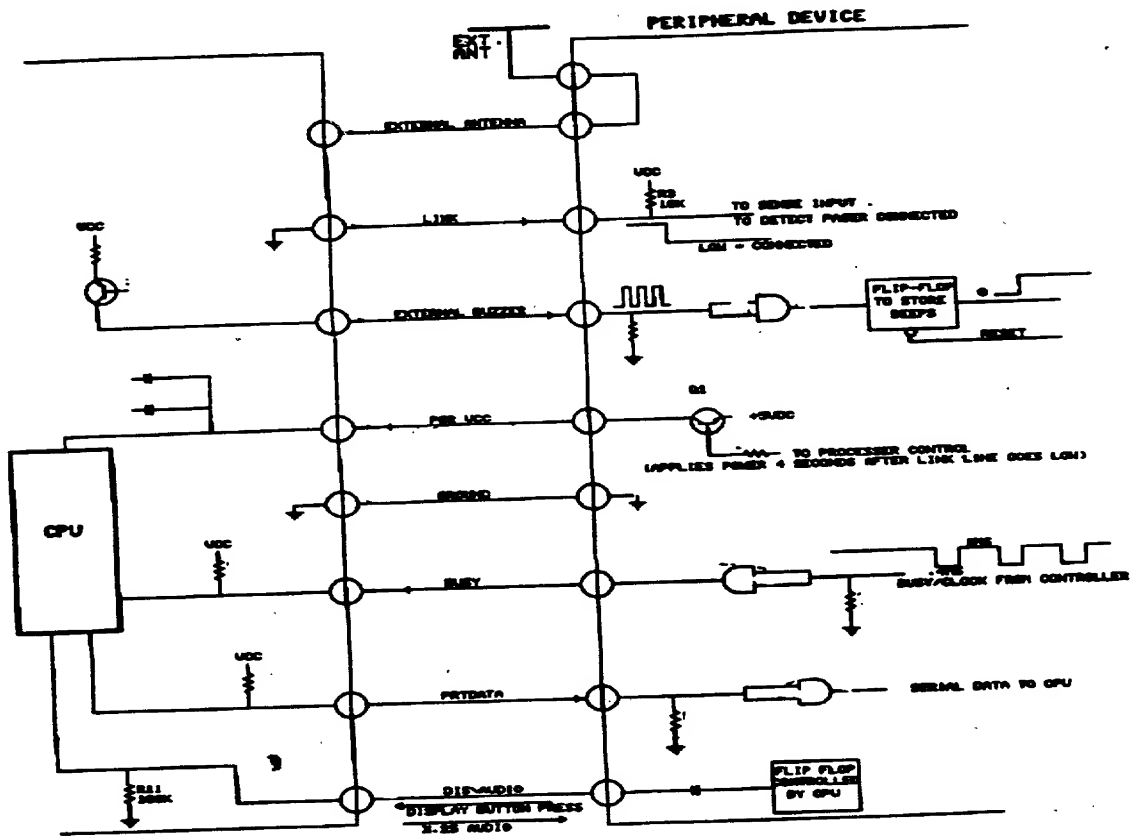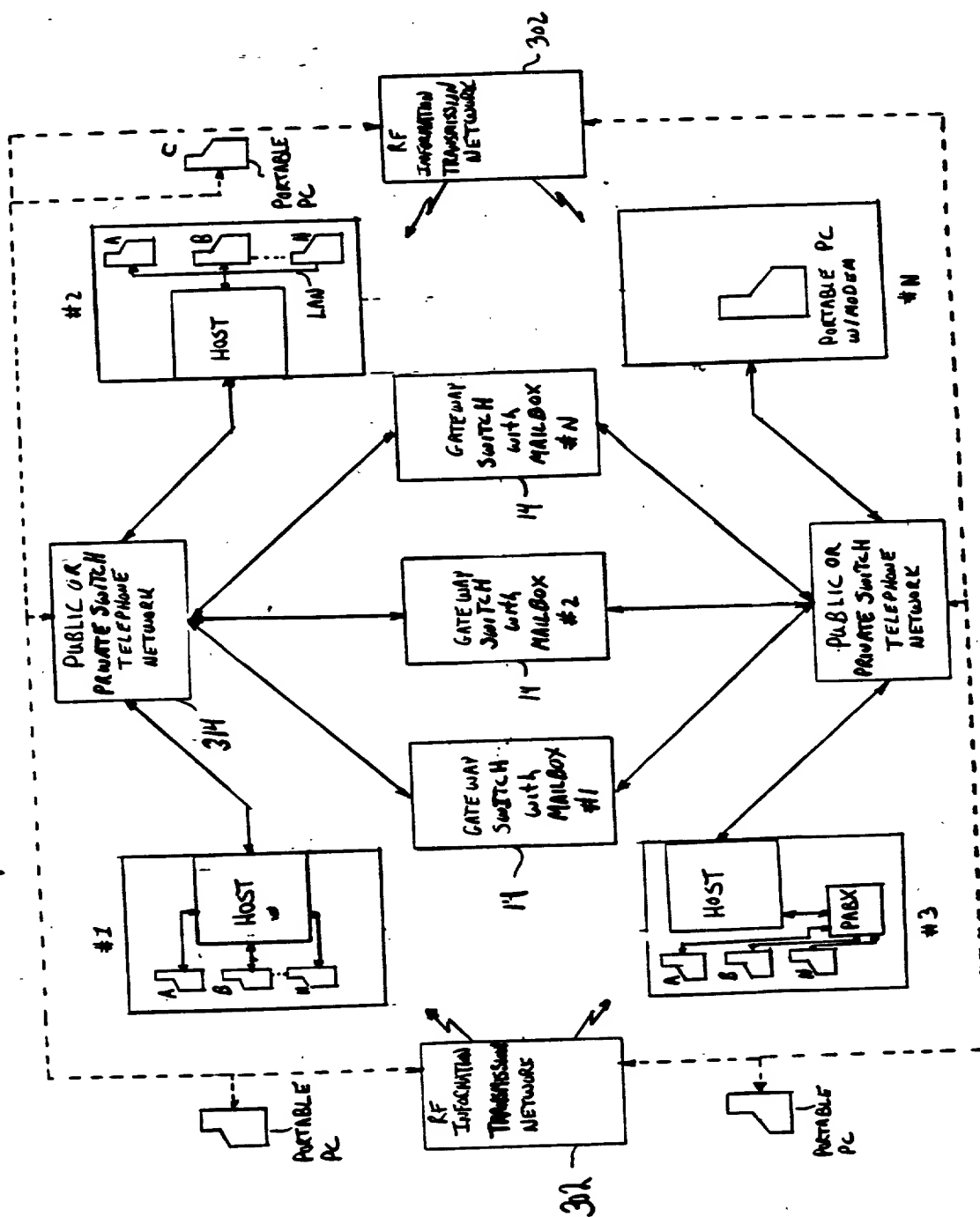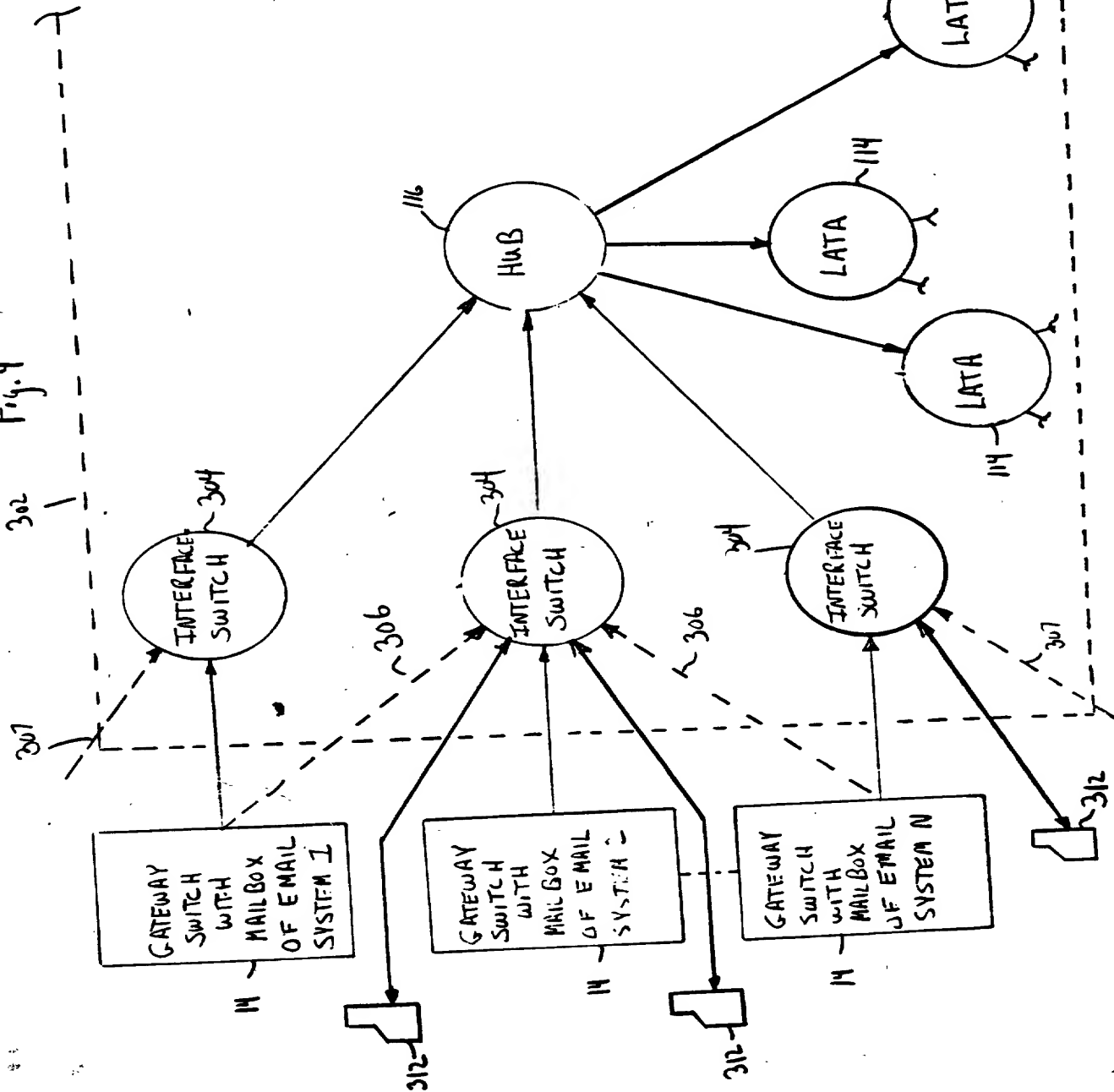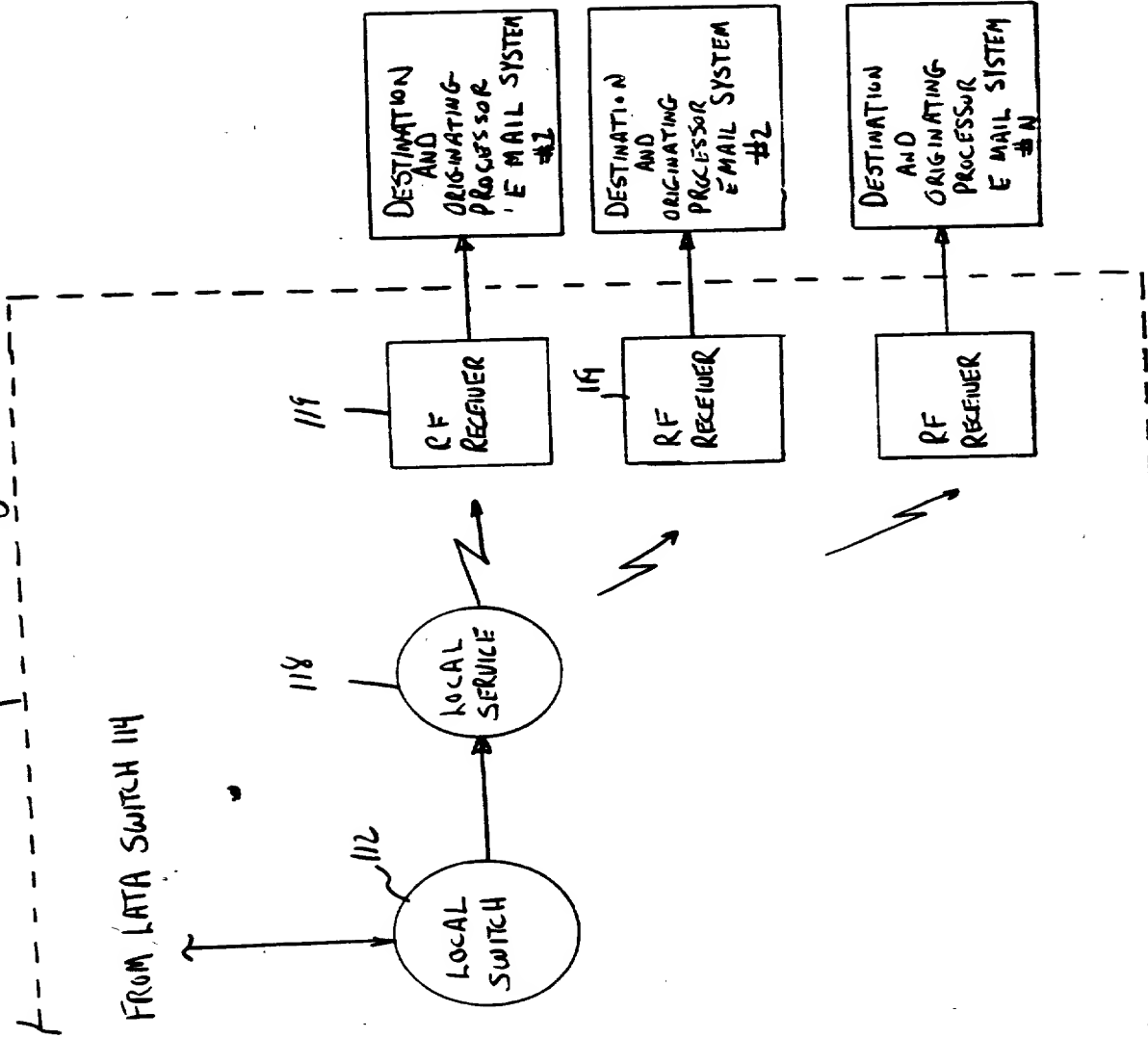
Fig. 11

ELECTRONIC MAIL MESSAGE ENTRY METHODS

Entry Method	Originating Processor	Gateway Switch 14	Interface Switch 304
1	Adds interface (wireless) destination and destination processor	No-Action	Adds ID of RF receiver 114
2	Adds interface (wireless) destination and ID of receiver 114	No-Action	No action other than ID verification.
3	Adds destination processor	Adds wireless destination.	Adds ID of receiver 114
4	Adds destination processor	Adds wireless destination and ID of receiver 114	No action other than ID verification.
5	Adds destination processor, operator points to displayed icon, originating processor adds wireless destination	Adds ID of receiver 114	No-Action other than ID VERIFICATION
6	Adds destination processor operator points to displayed icon, originating processor adds wireless destination	No-Action	Adds ID of receiver 114
7	Adds destination processor, operator points to displayed icon, originating processor adds wireless destination and ID (by comparing ID of receiver 114 destination processor to ID table).	No-Action	No-Action other than ID VERIFICATION

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Figure 12